

EXHIBIT 7
DECLARATION OF WILLIAM BIRDWELL
IN SUPPORT OF
PLAINTIFF'S RESPONSE TO DEFENDANT'S
MOTION TO QUASH SERVICE



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Locations

→The UPS Store

Locations

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Location:

29488 WOODWARD AVE
ROYAL OAK, MI 48072



Phone: (248) 548-8178

Fax: (248) 548-8176

→[E-mail The UPS Store #4708](#)

Additional Information: SOUTH OF WEBSTER BETWEEN 12 MILE RD & 13 MILE RD

Regular Hours of Operation:

Monday	9:00am-7:00pm
Tuesday	9:00am-7:00pm
Wednesday	9:00am-7:00pm
Thursday	9:00am-7:00pm
Friday	9:00am-7:00pm
Saturday	10:00am-6:00pm

Products & Services

Mailing and Shipping Services

Mail Box Services
(24-Hour Access*)
Stamps & Metered
Mail
Certified Mail/Return
Receipt
Overnight Document
& Package Delivery
Ground/Air UPS
Shipping and
Receiving
TotalShipping™
(Freight Shipping)
UPS
International Shipping

Packing and Moving Services

Packing and Moving
Boxes

Copy and Print Services

Full Service Black & White
Copies
Self Service Black & White
Copies
Color Copies
Printing Services: Business
Cards, Envelopes and
Letterheads
Binding
Laminating
Collating
Full Range of Finishing
Services

Communication and Business Services

Fax Services, Send and
Receive

Additional Products and Services

Office Products
and Supplies
Rubber Stamps

* 24-hour access available at most locations

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Location:

512 S WASHINGTON
ROYAL OAK, MI 48067-3826

Phone: (248) 399-8860

Fax: (248) 399-1026

→[E-mail The UPS Store #3399](#)

Additional Information: WASHINGTON BETWEEN 5TH AND 6TH

Regular Hours of Operation:

Monday	9:00am-7:00pm
Tuesday	9:00am-7:00pm
Wednesday	9:00am-7:00pm
Thursday	9:00am-7:00pm
Friday	9:00am-7:00pm
Saturday	9:00am-5:00pm

Products & Services

Mailing and Shipping Services

Mail Box Services
(24-Hour Access*)
Mail Forwarding
Stamps & Metered
Mail
Certified Mail/Return
Receipt
Global Mail Box
Services
Overnight Document
& Package Delivery
Ground/Air UPS
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Receiving
TotalShipping™
(Freight Shipping)
UPS
USPS
Pick-up Service
Delivery Service
International Shipping

Packing and Moving Services

Packing and Moving
Boxes
Estate Packing
Custom Crating

Copy and Print Services

Full Service Black & White
Copies
Self Service Black & White
Copies
Oversized Black & White
Copies
Black & White
Copies-Output Direct from
Computer
Color Copies
Color Copies-Output Direct
from Computer
Printing Services: Business
Cards, Envelopes and
Letterheads
Digital Laser Printing
Binding
Laminating
Collating
Full Range of Finishing
Services
Specialty Paper Selection
Commercial Accounts
Available
Pick Up & Delivery
Available

Communication and Business Services

Fax Services, Send and
Receive
Black & White Scanning

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Notary Services
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and Supplies
Rubber Stamps
Notary Services
by Appointment

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Location:
562 LAKELAND PLAZA
CUMMING, GA 30040-2783

Phone: (770) 889-7447
Fax: (770) 889-8560
→ [E-mail The UPS Store #1709](#)

Additional Information: LOWER LAKELAND PLZ ACROSS FROM GOODWILL FACING HWY 9

Regular Hours of Operation:

Monday	8:00am-6:30pm
Tuesday	8:00am-6:30pm
Wednesday	8:00am-6:30pm
Thursday	8:00am-6:30pm
Friday	8:00am-6:00pm
Saturday	9:00am-3:00pm

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- USPS
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- Color Copies-Output Direct from Computer
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- Laminating
- Collating
- Full Range of Finishing Services
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- Pick Up & Delivery Available

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UNITED STATE DISTRICT COURT
Western District of Washington

Joescan, Inc.,

Plaintiff,

v.

LMI Technologies, Inc.

Defendant.

Case#: **07 CV 24**

Affidavit of Bad-Address

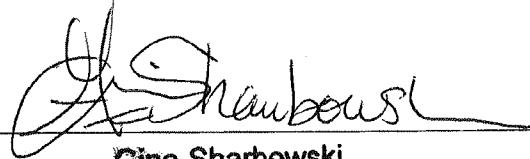
Being duly sworn on my oath, I *GINA SHARBOWSKI*, declare that:

- 1) I am a citizen of the United States, over the age of eighteen and not a party to this action.

I received an original and copies of the SUMMONS & COMPLAINT issued out of the U.S. District Court, Western District of Washington, on the above named matter on 7-11-07 and immediately proceeded to attempt to make service of process.

- 3) That on 7-12-07 I attempted to serve the defendant; **LMI TECHNOLOGIES, INC.** at the business address of: *29488 Woodward Ave., Ste. #331, Royal Oak, MI 48073* but have found this to be a 'UPS Store' where I did confirm that the defendant company rents a P.O. Box at the UPS Store, Box#331. The UPS employees are typically not allowed to give out any information with out a subpoena, however he did confirm that the Defendant LMI TECHNOLOGIES, INC. is still the current boxholder of #331 and that the address they provided on their application is the same address in Canada that is listed on the summons.

JUL 21 2007


Gina Sharbowski
Process Server

Subscribed and Sworn to before me on JUL 21 2007

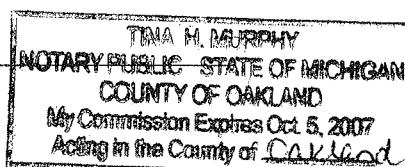
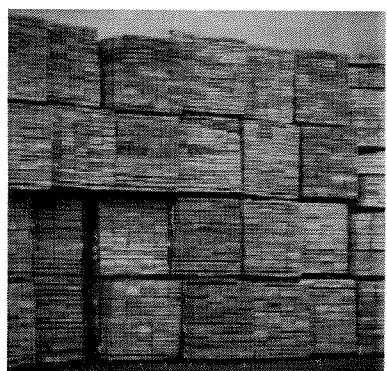


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EXHIBIT 8
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DynaVision® SENSORS THAT SEE™

DynaVision is the flagship brand of LMI Technologies. In the wood industry, the most trusted name for world class scanner technology since 1976.

DynaVision proudly partners with leading world-wide OEM's and Systems Integrators in the wood processing industry. Through these alliances we collectively engineer disciplined advancements in lumber optimization solutions; producing mills' best level returns in value and volume recovery.

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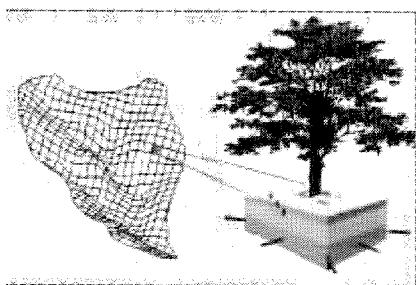
Supplier Newsline

Sample Sealer Prevents Moisture Loss

The BOSS (bright orange sample sealer) is a moisture barrier coating from U•C Coatings Corp designed to prevent moisture loss from the ends of kiln sample boards. Easy to apply, it dries to a hard, nonmessy coating and contains no dangerous solvents or volatile organic compounds. No cost samples are available for testing to ensure its compatibility with particular operating methods. BOSS can be left to dry or put directly into the kiln. Hot, soapy water clean up is recommended.

Watershed Analysis Model Expands

A newly enhanced computer model may help forest managers to design or modify forest roads, tree harvesting and other land use activities based on their effects on watersheds, streams and fish habitat. Researched at the US Department of Energy's Pacific Northwest National Laboratory, the model simulates the movement of water throughout a watershed using thousands of computational grid cells, making it possible to explore economic and environmental tradeoffs. In each cell, the model considers solar radiation, precipitation, air temperature, evaporation, plant transpiration and down slope water movement. The Geographic Information System based Modeling System for Watershed Analysis (GISWA) shows how alternative practices can help avoid altering a watershed's natural processes by simulating hydrologic conditions at thousands of locations, including flow below the ground's surface, which may be redistributed when trees are harvested or roads are built



EZLINK Monitoring Reduces Downtime

Dodge EZLINK offers a solution for the online monitoring of bearings, gear reducers, motors and other mechanical components, helping to avoid sudden failures by checking



temperature, vibration and speed. By including mechanical components in

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the selected task. An additional "heavy lift" mode provides eight per cent more force on the boom for unusual requirements. Two boom settings facilitate gathering and scraping operations in smooth mode and efficient excavating with maximum digging force in power mode.



DynaVision Joins LMI Group

Dynamic Control Systems Inc (also known as DynaVision) announces its recent merger with three other leading noncontact laser based measurement and control companies, Selcom, Sami and Sensors95. The new international group operates under the name of LMI (Laser Measurement International) and has its head office in Vancouver, BC. LMI chairman and CEO Len Metcalfe says the synergy the four companies bring to the Group will create a strong, future oriented worldwide organization. Manufacturing and R and D facilities are located in North America and Europe, while sales offices in Canada, the US and Europe support a distribution network throughout 30 countries. DynaVision is now LMI, Wood Products Division, serving the forest product industries and generally focusing on laser scanners for sawmilling, veneer plants and building material production. DynaVision will continue to be used as a product name.

Tigercat Acquires CTL Technology

Tigercat Industries Inc announces it has acquired the assets of Swedish forestry equipment manufacturer Hemek. The new Swedish company will be known as Tigercat AB. Established in 1962, Hemek manufactures a line of cut to length equipment including 14 and 18ton forwarders as well as three eight wheel harvester models. It also manufactures the Woodking line of single grip harvesting attachments. Like Tigercat, Hemek has a strong engineering focus. With its production facility located in Hede, Sweden, it is currently operating in Scandinavia, Europe and Australia, as well as North and South America. Tigercat designs and manufactures a growing line of forestry equipment that will be enhanced with the acquisition of the Hemek/Woodking line.

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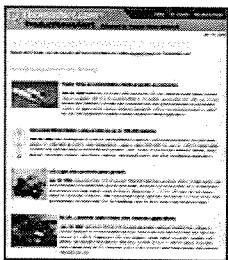
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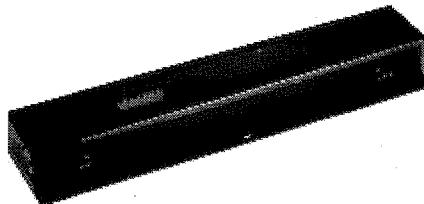
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Multi-Point Sensor scalps aluminum ingots.

March 26, 2002 - B8 Sensor has 8 individual laser points spaced every 3.0 in. over 2 ft length. Depth of measurement range of each laser point is up to 14 in., with accuracy of +/- 0.020 in. and resolution of less than 0.010 in. Binocular vision system verifies information collected. With 2 DSP computer chips, B8 can be linked or multiplexed with other units. 16-bit controller and RS-485 or RS-232 interface provides connections with PCs, PLCs and other automated systems.

Related categories: [Chemical Processing & Waste Management](#) | [Sensors, Monitors & Transducers](#) | [Test & Measuring Instruments](#)

Archive Press Release

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Release date: February 21, 2002

LMI Selcom Multi-Point Sensor

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With Visible Lasers And Higher Speed For Scalping Aluminum Ingots Or Other Large Area Measurements Introduced

Contact: David Allen
(248) 359-2401
For Immediate Release
February 21, 2002

DETROIT, Michigan USA
--- A high resolution multi-point sensor for large area measurement such as the scalping of aluminum ingots was introduced by LMI Selcom at the recent TMS Show in Seattle, Washington, USA. LMI Selcom has offices in Detroit, Michigan USA and Gothenburg, Sweden.

"The LMI Selcom B8 scan head is faster than any multi-head sensor we have ever made," noted David Allen, LMI Selcom Business Manager. "It is ideal for scalping plus various other applications in the ferrous and non-ferrous market."

The B8 multi-point sensor has eight individual laser points spaced every 3.0 in. (7.62 cm) over a 2.0 ft (61 cm) length. The sensor's fast response rate and tight control provides the high density information required by the scalping machine to make an accurate measurement of the lowest point on the ingot for optimum quality control and reduced waste.

The depth of the measurement range of each laser point is up to 14 in. (36cm), with an accuracy +/- 0.020 in. (0.05 cm) and a resolution of less than 0.010 in. (0.025 cm) of the measurement range. The housing is rated NEMA-4 (IP-65) and is protected by a gasket aluminum enclosure for easy operation at temperatures from 32°F to 120°F (0° to 50°C).

A revolutionary binocular vision system verifies all the information collected. Sensors adjust for target angle, color and other defects. The system has the ability to be multi-plexed with multiple sensor heads to provide an effective scan width of virtually any size desired.

The B8 sensor uses 650 nm red laser diodes for easy alignment and installation with one cable. The sensor interfaces to any PC-based data acquisition system and is versatile to meet constantly changing computer technology. LMI also offers set-up and calibrate software for easy integration on single or multiple head systems.

Besides scalping, the B8 sensor is also ideal for height and profile measurement of various metals, sizing of materials and various other large scale measurements that require profiling large pieces of material.

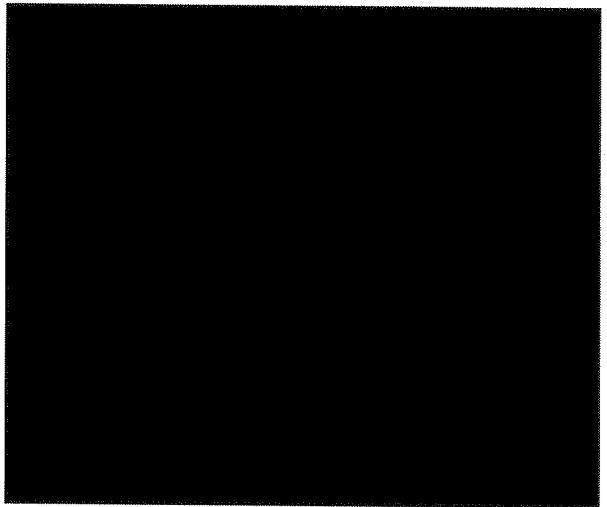
B8 Multi-Point Sensor Described

With two high power DSP computer chips, the B8 Multi-Point Sensor from LMI Selcom can be linked or multi-plexed with other units, providing the same accuracy and resolution of a single unit.

Sensors: Precision Measurement

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The B8 sensor's 16-bit controller and standard RS-485 or optional RS-232 interface provides simple and easy connections with PCs, PLCs and other automated systems. Input power is 15 to 26 VDC's @ 750 mA. Software comes on a 3.5 floppy disc.

A type GaAlAs Class IIIa laser, laser diodes are projected on the object measured. Reflection off the object's surface produces diffusely scattered light. The light passes through the sensor's imaging optics onto two position sensitive linear CCD line elements. The sensor is not affected by changes in ambient lighting or temperature.

Besides the B8 sensor, LMI Selcom also offers a variety of single-point and multi-point non-contact laser sensors to the aluminum industry for molds, launders, as well as other applications such as coil wind-up and take-off. A Tap-Out Actuator for improving safety and quality when casting out from a gravity furnace, a Pin Position Actuator for high performance molten metal level and flow control in downspouts and an overpour protection device for increasing safety and control during pouring are also available.

LMI Selcom is part of LMI Technologies, Inc., a world leader in 1D, 2D and 3D machine vision sensors.

For more information on the new B8 Multi-Point Sensor or other products LMI Selcom offers to the aluminum market, contact LMI Selcom in North America at LMI -Laser Measurement International Industrial Sensors Division at 21666 Melrose Avenue, Southfield, MI 48075 or call (248) 359-2409, FAX (248) 355-3283 or E-Mail issales@lmint.com.

Outside of North America, contact LMI Selcom at Box 250, Ogardevägen 19A, SE-433 25 Partille, Sweden, Tel: +46 (0) 31-336-25 42. FAX +46-(0) 31-44-61-79 or E-Mail sales.aluminum@lmint.com. LMI is on the internet at <http://www.lmint.com>.

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Tel: (704) 332-5004, FAX: (704) 332-3771 or E-Mail kn@starkpr.com or ds@starkpr.com

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General Information:

David Allen
USA
Phone: 248-359-2401

Company Information:

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Address: 21666 Melrose Ave.
City: Southfield
State: MI
ZIP: 48075
Country: USA
Phone: 248-359-2409
FAX: 248-355-3282
<http://www.lmint.com>



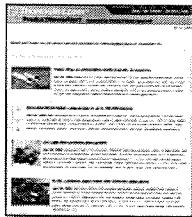
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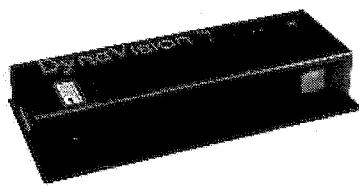
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Scanner produces up to 125 profiles/sec.

January 21, 2002 - L1 3-D Line Scanner is capable of supplying 3-D profiles across optical line up to 24 in. long. At transport speed of 47.2 in./sec, a new profile is reported every other 0.4 in. L1 has 120° field of vision and 23.6 in. measurement area that can be used individually or in conjunction with 3 additional units to acquire 360° of data. It has 1/16 in. resolution and stand off distance of 19 to 26 in.



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Related categories: [Computer Hardware & Peripherals](#)

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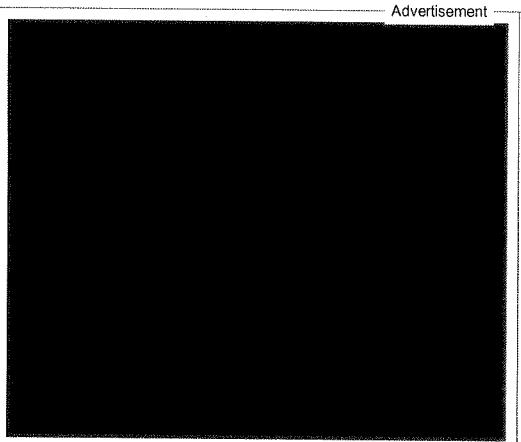
Release date: December 31, 2001

Profiling Scanner Produces Up To 125 Profiles Per Second For 2D And 3D Image Measurement

Detroit, MI---LMI Selcom has introduced the L1 3-D Line Scanner for general purpose accurate profile scanning capabilities supplying a 3-Dimensional profile across an optical line up to 24" in length.

The LMI Selcom L1 3-D Line Scanner is designed for extremely high

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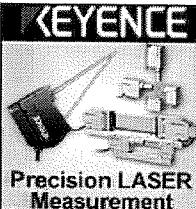
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resolution profiling and easy start-up in the most demanding industrial environments. At a 47.2 in./sec (1.2 m/sec) transport speed, a new profile is reported every other 0.4 in. (1 cm) to deliver the highest quality high density renderings. The L1 has a 120° field of vision and a 23.6 in. (600mm) measurement area per unit that can be used individually or in conjunction with three additional units to acquire 360° of data.

The L1 sensor has been developed for industrial settings requiring high measurement accuracy regardless of ambient light. The sensors are manufactured with rugged industrial housings, and are pre-calibrated at the factory for maximum precision.

Up to four sensor heads are plugged into a concentrator box. The L1 Scanner uses an ISA Host Card with quadrature encoder input for on-line profiling (PCI host card is optional). LMI provides front end calibration software for easy integration and installation.

Common Applications include quality control on wallboard(gypsum), accurate wood/board/cant profiling, pipe diameter, length, gap measurement, container fill, surface topography, ingot scalping and extrusion profile/width.

The use of visible lasers allows this scanner to be used for accurate targeting and optimization on specific active targets. This product is also available with a scan rate of 125 scans per second.

Technical Specifications

The LMI Selcom L1 Line Scanner is a Class III rated sensor with fast 60 profiles per second (125 scans per second optional) which ensures accurate testing data. The scanner has a resolution of 1/16 inches (1.5875 mm) and a stand off distance of 19 inches to 26 inches (483 mm-660 mm). The sensor is built to NEMA-4 (IP 65) standards and enclosed in an aluminum housing. It can operate at temperatures from 32° to 105° F (0° to 40° C). Based on CCD technology, the scanner can provide a data profile that can be filtered or otherwise processed for accuracy.

Company Information:

Name: LMI - Laser Measurement International, Inc.

Address: 21666 Melrose Ave.

City: Southfield

State: MI

ZIP: 48075

Country: USA

Phone: 248-359-2409

FAX: 248-355-3282

<http://www.lmint.com>

More news from this company:

Nov 17, 2005 - [Laser Sensor measures thickness and profile of glass.](#)
 Jun 23, 2005 - [Digital Laser Line Sensor utilizes triangulation principle.](#)
 Jan 5, 2005 - [Self-Contained Sensor has 16 kHz data sampling rate.](#)
 Dec 3, 2004 - [Laser Sensors offer long stand-off and measurement range.](#)
 Aug 10, 2004 - [Gauging Sensor Head suits limited work envelopes.](#)
 Jul 29, 2004 - [Laser Nano Sensor measures thickness and roughness.](#)
 Jun 30, 2004 - [Digital Laser Sensor suits pulp and paper industries.](#)
 Jun 4, 2004 - [Laser Triangulation Sensor suits positioning applications.](#)
 Mar 17, 2004 - [Measurement Sensor offers sensing lengths to 3.3 ft.](#)
 Aug 6, 2003 - [Laser Twin Sensor measures from 0.20 to 0.79 in.](#)

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 Feb 13, 2007 - [Laser Scanners suit automated warehousing and shopfloor.](#)
 Dec 26, 2006 - [Automated Extrusion Scanner monitors profiles in real-time.](#)
 Nov 13, 2006 - [Laser Scanner suits hazardous area applications.](#)
 Nov 9, 2006 - [Laser Barcode Scanner meets needs of small businesses.](#)
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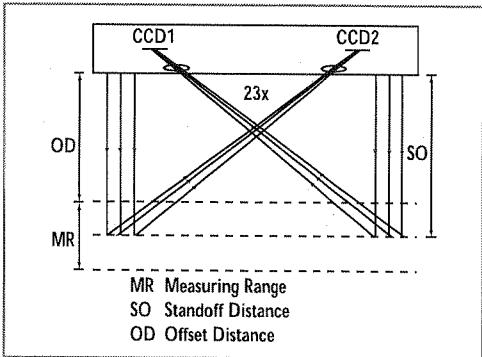
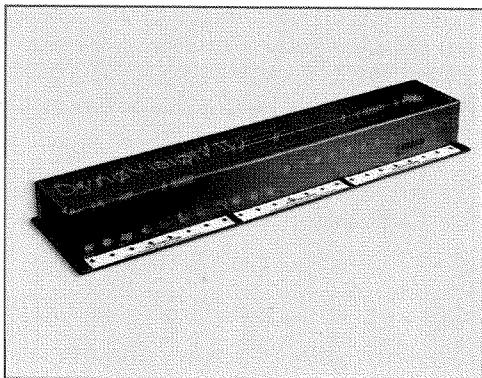
SICK, Inc.
 Specialists In Opto-Electronic Technology. A Complete Range Of Products For Use In

EXHIBIT 10
DECLARATION OF WILLIAM BIRDWELL
IN SUPPORT OF
PLAINTIFF'S RESPONSE TO DEFENDANT'S
MOTION TO QUASH SERVICE



Product Information

LASER MEASUREMENT INTERNATIONAL / finger gmbh & CO KG
Industrial Sensors Division



M24 Multi-Point Sensor

Multi-point Triangulation Principle

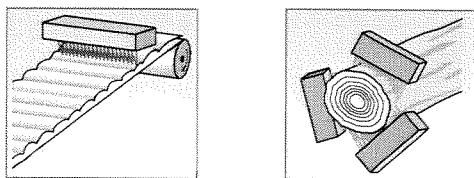
The M-24 optical scanner is a general-purpose profile scanner capable of supplying a 3-D profile with 23 lasers. Two groups of lasers (a group of 11 and a group of 12) emitted by laser diodes are projected onto the object to be measured via a system of lenses. Reflection off the object's surface produces diffusely scattered light. After passing through imaging optics, a portion of the light falls onto two position sensitive linear CCD line elements with a resolution of 2048 points. Displacing the object will lead to a change in angle (in relation to the sensor). As a result, the light spot will hit the CCD more to the left or more to the right. In turn, the change in position of the light spot will lead to a change in the output of each measuring point by the signal processing electronics, which includes a 16-bit micro-controller. The RS-485 (optional RS-232) interface provides a simple connection with a PC. Software is available on a 3.5 in. disk. The scan head has 23 measuring points with an interval spacing of 1 in. and is capable of measuring a width of 23 in. at a frequency of 1100 Hz per point. The M-24 contains two high-power DSP computer chips and can be linked with other M-24 units to provide an effective scan width of any size. An internal feedback loop automatically compensates for differences in detected light intensity due to the object's color and texture by varying power to the laser diode. The scan head contains a built-in display for diagnostics and easy installation.

Technical Specifications

Model Number	Measurement Range (MR)	Stand Off (SO)	Offset Distance (OD)	Resolution*	Linearity** at SO	Triangulation Angle at SO	Spot Size at SO	
M-24 14-24	mm in	610 24	660 26	355 14	0.254 0.010	0.660 0.026	15-45 15-45	2 x 1 0.08 x 0.04

* - Resolution is target dependent and reported without averaging at full bandwidth (worst case). Data averaging will improve resolution specifications (see chart in general brochure).

** - Linearity is calculated as 0.1% of Actual Measurement Reading (AMR).

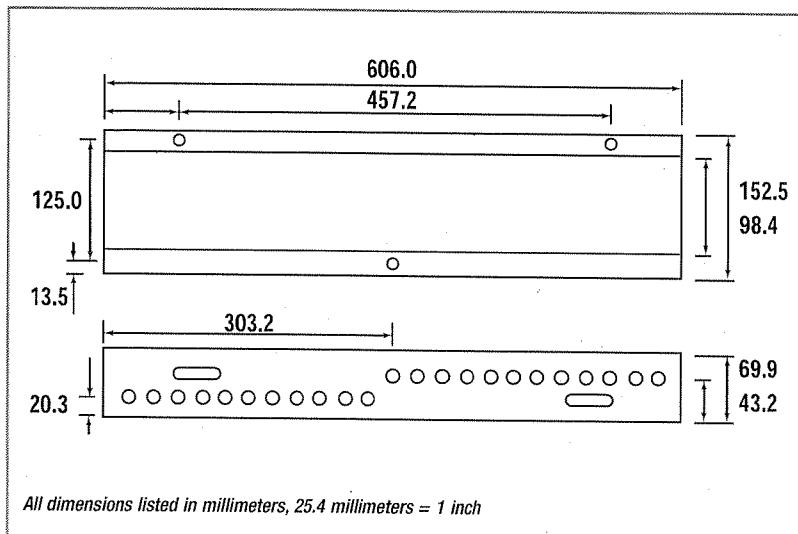


M24

Technical Specifications

LASER SOURCE	Standard	ENVIRONMENTAL		
Laser type	GaAlAs	Enclosure	IP-65 / NEMA 4	
Laser class	IIIb	Temperature	°C	0 - 50
Laser source power	mW		°F	32 - 122
Wavelength	nm	Temp. Fluctuation	% MR / °C	0.01
Lifetime expectancy	hr	Relative Humidity	%	<90 non-condensing

ELECTRICAL	Standard	PHYSICAL		
Power supply (linear)	VDC	+15 ±5%	Dimensions	mm 606 x 152 x 70
Current draw	A	3	in.	23.85 x 6.00 x 2.75
Digital Outputs	RS-232 / RS-485		Weight	g 5600
Frequency response	Hz	1,100 (per point)	lbs.	lbs. 12.3
Detector type	Dual CCD		Cable length	m 2.5
			ft.	ft. 8.2



CONNECTION WIRING

A	Receive Data (Rx+)
B	Receive (Rx-)
C	Power (+15 VDC)
D	Ground
E	Transmit (Tx+)
F	Transmit (Tx-)

1- YEAR LIMITED WARRANTY

The company will replace or, at the company's option, repair any system or parts thereof which are found defective in material or workmanship within one year from the date of shipment. Our obligation with respect to such system or part thereof shall be limited to repair and replacement F.O.B. company's facilities, and in no event shall the company be liable for incidental, consequential or special damages, or for transportation, installation, adjustment or other expenses which may arise in connection with such system or parts. This warranty is expressly made in lieu of any and all other warranties, expressed or implied, including warranties of merchantability and fitness. No waiver, alteration, or modification of the foregoing warranty shall be valid unless made in writing and signed by an executive of the company.

LMI laser sensors are manufactured under one or more of the following U.S. patents: 4,305,661; 4,373,804; 4,375,921; 4,394,683; 4,576,482; 4,667,231; 4,875,776; 5,056,922; 5,114,230; 5,164,579; 5,362,970; 5,510,625; 5,670,787; 5,684,292; 5,691,545; 5,734,172; 5,811,827; 5,854,491; 5,877,491; 5,880,459; 5,940,302; 5,981,965. Other US and foreign patents pending.



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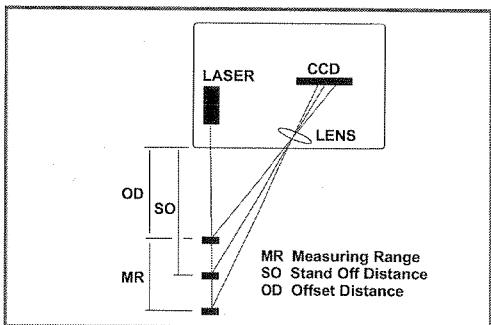
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EXHIBIT 10
PAGE 2 OF 8

Product Information



DynaVision SPR 04



Accurate, Affordable CCD

Short Range Digital Sensor

- Digital-Based Triangulation Sensor Family
- Smart, Self-Contained Sensors
- Compact Sensor Size
- User Scalable Range Via RS232
- Analog and Digital Outputs
- Rugged Industrial Packaging
- Excellent Ambient Light Rejection
- Ideal for Short Standoff Applications

Technical Specification

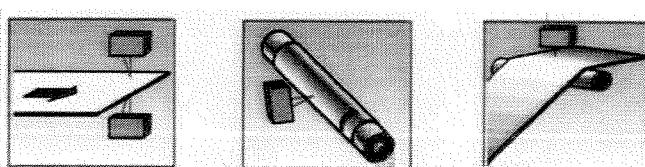
Model Number	Measurement Range (MR)	Stand Off (SO)	Offset Distance (OD)	Resolution (Worst Case) Note 1	Resolution (Typical) Note 2	Linearity	Triangulation Angle at SO	Spot Size at SO
SPR04 2-8	mm 203	152	51	0.025	0.0025	0.152	10 deg.	3 x 1
	in 8	6	2	0.001	0.0001	0.006		0.12 x 0.04

Note : SPR04 sensors are supplied with an RS232 communications link. With easy to use Windows-based software for a user supplied PC which can select a smaller measuring range (which improves sensor linearity), and allows rescaling of the voltage output range. Performance at smaller ranges is:

	Measurement Range (MR)	Stand Off (SO)	Offset Distance (OD)	Resolution (Worst Case) Note 1	Resolution (Typical) Note 2	Linearity	Triangulation Angle at SO	Spot Size at SO
mm	50	89	51	0.025	0.0025	0.089	17 deg.	3 x 1
in	2	3.5	2	0.001	0.0001	0.003		0.12 x 0.04
mm	102	102	51	0.025	0.0025	0.102	15 deg.	3 x 1
in	4	4	2	0.001	0.0001	0.004		0.12 x 0.04
mm	152	127	51	0.025	0.0025	0.127	12 deg.	3 x 1
in	6	5	2	0.001	0.0001	0.005		0.12 x 0.04

Note 1: Worst Case Resolution - at full bandwidth

Note 2: Typical Resolution - at 128 sample averaging



DynaVision®

Technical Specifications

DynaVision SPR 04

LASER SOURCE

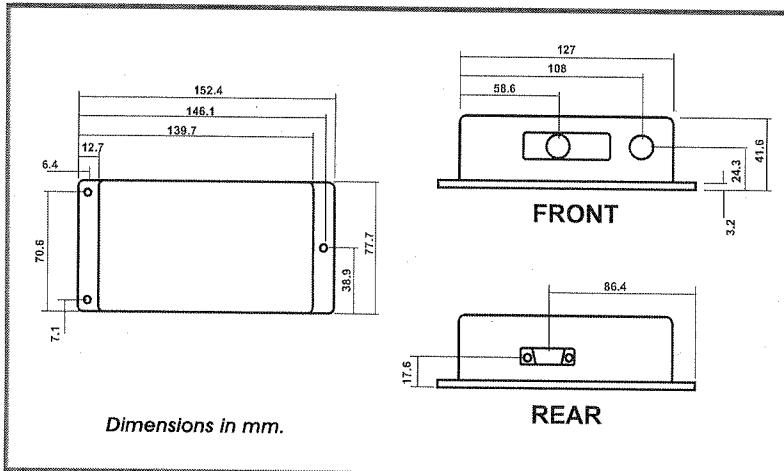
Laser type	GaAlAs	Enclosure	IP-65 / NEMA 4
Laser class	IIIa	Temperature	°C 0 - 50
Laser source power	mW <5		°F 32 - 122
Wavelength	nm 670	Temp. Fluctuation	% of MR / °C 0.01%
Lifetime expectancy	hr 100 000	Relative Humidity	% <95 non-condensing

ELECTRICAL

Power supply voltage	VDC +15 to +30	Dimensions	mm 152.4 x 77.7 x 41.6
Current draw	mA < 300 @ 15VDC		in 6 x 3.06 x 1.64
		Weight	kg 0.58
Data Rate	Hz 1 800	Cable Length	lbs 1.3
Detector type	CCD		m 2.5
			ft 8.2

OUTPUT INTERFACES

Interface, analog / digital	0-10 VDC, 4-20 ma	RS-485/422/232
Data update rate	1 800 Hz	



CONNECTION WIRING D-SUB 15

1	Power (+15 to +30 VDC)
2	Receive (Rx-)
3	Transmit (Tx-)
4	Analog out (0V to 10V)
5	Out of range
8	Analog out (GND)
9	Receive (Rx+)
10	Transmit (Tx+)
11	Power (GND)
12	Analog out (4-20 ma)
6, 7, 13, 14, 15	Reserved

1 - YEAR LIMITED WARRANTY

The company will replace or, at the company's option, repair any system or parts of a system which are found defective in material or workmanship within one year from the date of shipment. Our obligation with respect to such system or parts shall be limited to repair and replacement, F.O.B. our facilities, and in no event shall the company be liable for incidental, consequential or special damages, or for transportation, installation, adjustment or other expenses which may arise in connection with such system or parts. This warranty is expressly made in lieu of any and all other warranties, expressed or implied, including warranties of merchantability and fitness. No waiver, alteration, or modification of the foregoing warranty shall be valid unless made in writing and signed by an executive of the company.

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www.lmint.com

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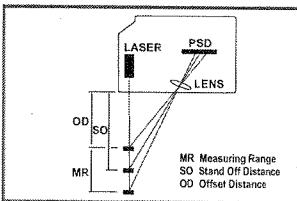
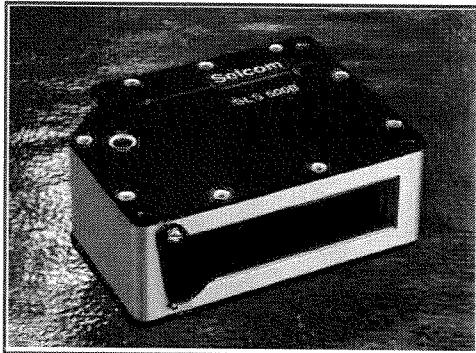
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Product Information



Selcom - SLS 5000

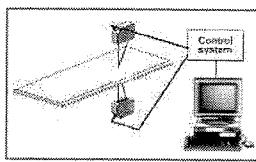


Technical Specification

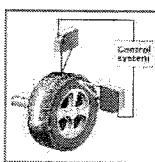
Model Number	Measurement Range (MR)	Stand Off (SO)	Offset Distance (OD)	Resolution (Worst Case) Note 1	Resolution (Typical) Note 2	Linearity	Triangulation Angle at SO	Spot Size at SO
SLS 5006/50	mm 6 in 0.24	50 1.97	47 1.85	0.0015 0.0006	0.00015 0.00006	0.003 0.00012	36 deg. 0.003	0.07 0.003
SLS 5020/50	mm 20 in 0.79	50 1.97	40 1.57	0.005 0.0002	0.0005 0.00002	0.010 0.00039	36 deg. 0.07	0.07 0.003
SLS 5010/100	mm 10 in 0.39	100 3.94	95 3.74	0.0025 0.0001	0.00025 0.00001	0.005 0.0002	27 deg. 0.12	0.12 0.005
SLS 5020/100	mm 20 in 0.79	100 3.94	90 3.54	0.005 0.0002	0.0005 0.00002	0.010 0.0004	27 deg. 0.12	0.12 0.005
SLS 5035/100	mm 35 in 1.38	100 3.94	82.5 3.25	0.0088 0.00034	0.00088 0.000034	0.018 0.0007	27 deg. 0.12	0.12 0.005
SLS 5035/200	mm 35 in 1.38	200 7.87	182.5 7.19	0.0088 0.00034	0.00088 0.000034	0.018 0.0007	18 deg. 0.25	0.25 0.01
SLS 5070/200	mm 70 in 2.76	200 7.87	165 6.50	0.0175 0.0007	0.00175 0.00007	0.035 0.0014	18 deg. 0.25	0.25 0.01
SLS 5100/200	mm 100 in 3.94	200 7.87	150 5.91	0.025 0.001	0.0025 0.0001	0.050 0.002	18 deg. 0.25	0.25 0.01
SLS 5070/300	mm 70 in 2.76	300 11.81	265 10.4	0.02 0.001	0.002 0.0001	0.035 0.0014	13 deg. 0.3	0.3 0.012
SLS 5150/300	mm 150 in 5.91	300 11.81	225 8.86	0.04 0.001	0.004 0.0001	0.075 0.003	13 deg. 0.3	0.3 0.012
SLS 5200/300	mm 200 in 7.87	300 11.81	200 7.87	0.05 0.002	0.005 0.0002	0.100 0.0039	13 deg. 0.3	0.3 0.012
SLS 5325/400	mm 325 in 12.8	400 15.75	237.5 9.35	0.08 0.0032	0.008 0.00032	0.163 0.0064	10 deg. 0.5	0.5 0.02
SLS 5400/450	mm 400 in 15.7	450 17.72	250 9.84	0.10 0.0039	0.010 0.00039	0.200 0.0079	9 deg. 0.6	0.6 0.02
SLS 5750/600	mm 750 in 29.5	600 23.62	225 8.86	0.19 0.0074	0.019 0.00074	0.375 0.0148	7 deg. 0.8	0.8 0.03
SLS 51000/1250	mm 1000 in 39.4	1250 49.21	750 29.53	0.25 0.0098	0.025 0.0098	0.500 0.0197	3 deg. 1.0	1.0 0.04

Note 1: Worst Case Resolution - at full bandwidth

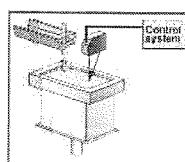
Note 2: Typical Resolution - at 128 sample averaging



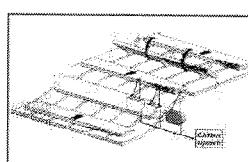
Thickness Profiling



Tire Measurement



Level Control



Wane Detection



Seam Finding

Selcom

Information contained within this document is subject to change. For updated information, please contact LMI.

SLS 5000 Sep 6, 2002

Technical Specifications

Selcom - SLS 5000

LASER SOURCE

Laser class	2, 3B, 3R (IEC) II, IIIa, IIIb (FDA)	Enclosure	IP-65 / NEMA 4
Wavelength	Visible Red, Near IR	Temperature - Operating	°C 0 - 50 °F 32 - 122
Lifetime expectancy	hr 100 000	Temp. Stability	% of MR / °C 0.01
		Relative Humidity	% <95 non-condensing

ELECTRICAL

ELECTRICAL		PHYSICAL	
Power supply voltage	VDC +18 to +32	Dimensions	mm 135 x 105 x 51
Current draw	mA < 350		in 5.31 x 4.13 x 2.01
In rush current	A 1 during 50ms	Weight	kg 1.1
Sampling rate	Hz 16 000		lbs 2.4
Frequency response	Hz 2 000	Cable Length	m 2
Detector type	PSD		ft 6.6

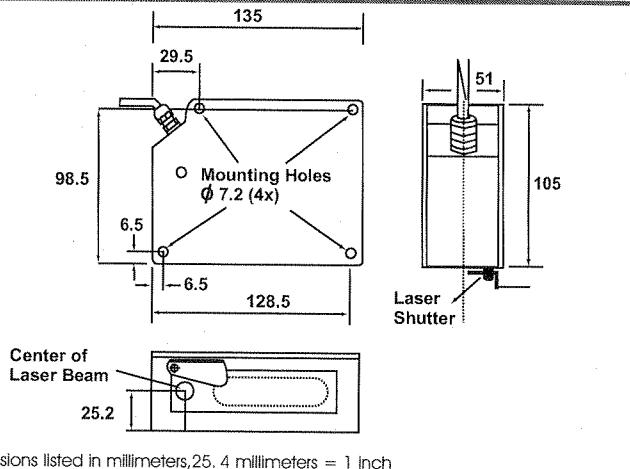
OUTPUT INTERFACES

Interface, analog / digital	0-20mA	4-20mA	RS232-C	RS-422	Selcom (Digital)
Data update rate	16 kHz	16 kHz	≤100 Hz	≤1 kHz	16 kHz
Max. Cable Length	m 100	100	15	100	100
	ft 328	328	49	328	328

CONNECTION WIRING

DSUB 15-pin outputs / IP 65 connector	
1	Receive Data, RS-232
3	Clock, Selcom or RS-422
4	Clock-inv, Selcom or RS-422
5	Data, Selcom or RS-422
6	Data-inv, Selcom or RS-422
8	Invalid out-
9	Transmit Data, RS-232
11	Ground
12	Invalid out+
13	Analog out (0-20mA, 4-20mA)
14	Laser ON (+18 to +32V)
15	Power (+18 to +32V)
2, 7, 10	NC

All dimensions listed in millimeters, 25.4 millimeters = 1 inch



1- YEAR LIMITED WARRANTY

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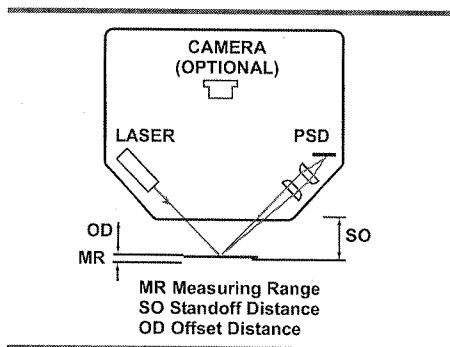
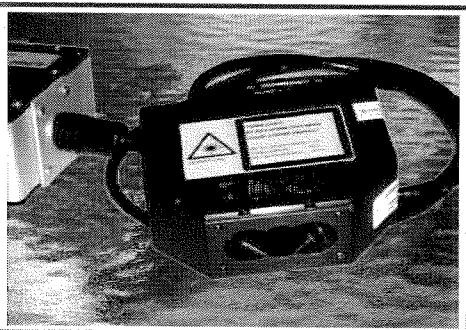
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E-mail: sensors95@lmint.com



Product Information



Selcom - SLS 7000



Designed for Reflective Surfaces

Unprecedented Sub-Micron Resolution

- Specially Designed for Mirror to Semi-Specular Surfaces
- 10 Micron Laser Spot for Small Features
- Optical & Electronic Design Suppresses Speckle Noise
- Optional Video Camera Simplifies Spot Alignment & Feature Measurement Setup
- High Speed PSD-Based Triangulation Sensor
- Fast Automatic Light Control for Varying Surfaces
- Analog and Digital Outputs
- Rugged Industrial Packaging
- Includes SLS PPU Interface Box

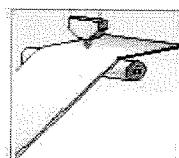
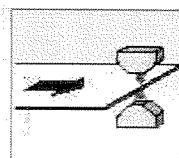
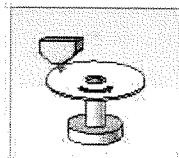
Technical Specification

Model Number	Measurement Range (MR)	Stand Off (SO)	Offset Distance (OD)	Resolution (Worst Case) Note 1	Resolution (Typical) Note 2	Linearity Note 3	Triangulation Angle at SO	Spot Size at SO
SLS 7001/15	mm 1	15	14.5	0.00025	0.000025	0.0005	86 deg.	0.010-0.020
	in 0.04	0.59	0.57	0.00001	0.000001	0.00002		0.0004-0.0008

Note 1: Worst Case Resolution - at full bandwidth

Note 2: Typical Resolution - at 128 sample averaging

Note 3: Linearity Specified Using a Mirror Target



Options & Accessories

- Integrated Video Camera for Precise Spot Location
- User Selectable Averaging from 1-1024 Values for Resolution Improvement
- +24 VDC Power Supply Unit

Selcom
SLS 7000 Dec 3, 2002

Information contained within this document is subject to change. For updated information, please contact LMI.

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Technical Specifications

Selcom - SLS 7000

LASER SOURCE

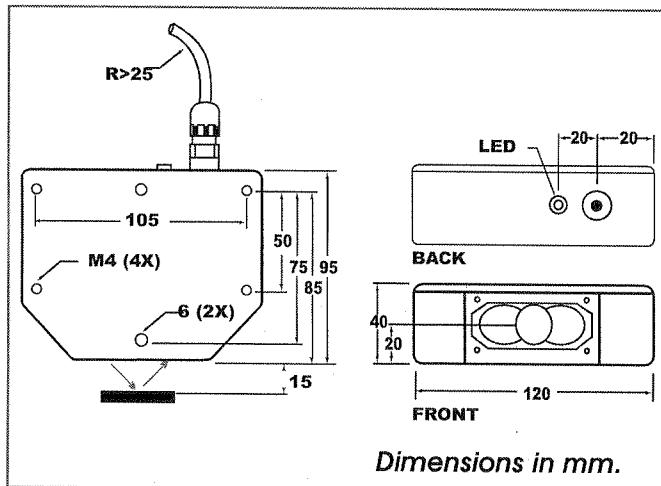
		ENVIRONMENTAL	
Laser class	2 (IEC)	Enclosure	N/A
	II (FDA)	Temperature	°C 0 - 50 °F 32 - 122
Wavelength	Visible Red	Temp. Fluctuation	% of MR / °C 0.01
Lifetime expectancy	hr 100 000	Relative Humidity	% <95 non-condensing

ELECTRICAL

		PHYSICAL (SESOR HEAD)	
Power supply	VDC +18 to +32	Dimensions	mm 120 x 95 x 40
Current draw	mA < 350		in 4.72 x 3.74 x 1.57
In rush current	A 1 during 50ms	Weight	kg 0.75
Sampling rate	Hz 16 000		lbs 1.65
Frequency response	Hz 2 000	Cable Length	m 2
Detector type	PSD		ft 6.6

OUTPUT INTERFACES

Interface, analog / digital	0-20mA	4-20mA	RS232-C	RS-422	Selcom (Digital)
Data update rate	16 kHz	16 kHz	≤100 Hz	≤1 kHz	16 kHz
Max. Cable Length	m 100	100	15	100	100
	ft 328	328	49	328	328



CONNECTION WIRING (from interface box)

DSUB 15-pin outputs / IP 65 connector

- 1 Receive Data, RS-232
- 3 Clock, Selcom or RS-422
- 4 Clock-inv, Selcom or RS-422
- 5 Data, Selcom or RS-422
- 6 Data-inv, Selcom or RS-422
- 8 Invalid out-
- 9 Transmit Data, RS-232
- 11 Ground
- 12 Invalid out+
- 13 Analog out (0-20mA, 4-20mA)
- 14 Laser ON (+18 to +32V)
- 15 Power (+18 to +32V)
- 2, 7, 10 NC

1 - YEAR LIMITED WARRANTY

The company will replace or, at the company's option, repair any system or parts of a system which are found defective in material or workmanship within one year from the date of shipment. Our obligation with respect to such system or parts shall be limited to repair and replacement, F.O.B: our facilities, and in no event shall the company be liable for incidental, consequential or special damages, or for transportation, installation, adjustment or other expenses which may arise in connection with such system or parts. This warranty is expressly made in lieu of any and all other warranties, expressed or implied, including warranties of merchantability and fitness. No waiver, alteration, or modification of the foregoing warranty shall be valid unless made in writing and signed by an executive of the company.

LMI vision sensors are manufactured under one or more of the following U.S. patents: 4,305,661; 4,373,804; 4,375,921; 4,394,683; 4,576,482; 4,667,231; 4,875,776; 5,056,922; 5,114,230; 5,164,579; 5,362,970; 5,510,625; 5,670,787; 5,684,292; 5,691,545; 5,734,172; 5,811,827; 5,854,491; 5,877,491; 5,880,459; 5,940,302; 5,981,965. Other US and foreign patents pending.

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